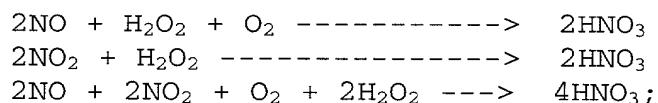


CONVERSION OF LOW NO_x CONCENTRATIONS IN COMBUSTION GASES
TO NITRIC ACID OR FERTILIZER USING HYDROGEN PEROXIDE AND
LYE

ABSTRACT OF THE DISCLOSURE

A process for reducing NO_x emissions in a gaseous combustion effluent stream containing NO and/or NO₂ includes the steps of: a) adding hydrogen peroxide to the effluent stream in sufficient amounts to generate nitric acid by first stage reactions as follows:



and optionally, after the nitric acid is generated, adding sufficient amounts of potassium hydroxide to the effluent stream to generate potassium nitrate in second stage reactions as follows:

